

# Daniel Molina Cabrera

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55  
papers

7,184  
citations

22  
h-index

59  
g-index

59  
ext. papers

9,311  
ext. citations

5.5  
avg, IF

6.25  
L-index

#	Paper	IF	Citations
55	A practical tutorial on the use of nonparametric statistical tests as a methodology for comparing evolutionary and swarm intelligence algorithms. <i>Swarm and Evolutionary Computation</i> , <b>2011</b> , 1, 3-18	9.8	2857
54	A study on the use of non-parametric tests for analyzing the evolutionary algorithms behaviour: a case study on the CEC2005 Special Session on Real Parameter Optimization. <i>Journal of Heuristics</i> , <b>2009</b> , 15, 617-644	1.9	1223
53	Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. <i>Information Fusion</i> , <b>2020</b> , 58, 82-115	16.7	1210
52	Bio-inspired computation: Where we stand and what's next. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 48, 220-250	9.8	264
51	Real-coded memetic algorithms with crossover hill-climbing. <i>Evolutionary Computation</i> , <b>2004</b> , 12, 273-302	4.3	245
50	Global and local real-coded genetic algorithms based on parent-centric crossover operators. <i>European Journal of Operational Research</i> , <b>2008</b> , 185, 1088-1113	5.6	220
49	Memetic algorithms for continuous optimisation based on local search chains. <i>Evolutionary Computation</i> , <b>2010</b> , 18, 27-63	4.3	131
48	Editorial scalability of evolutionary algorithms and other metaheuristics for large-scale continuous optimization problems. <i>Soft Computing</i> , <b>2011</b> , 15, 2085-2087	3.5	126
47	MA-SW-Chains: Memetic algorithm based on local search chains for large scale continuous global optimization <b>2010</b> ,		88
46	Memetic algorithms based on local search chains for large scale continuous optimisation problems: MA-SSW-Chains. <i>Soft Computing</i> , <b>2011</b> , 15, 2201-2220	3.5	73
45	Adaptive local search parameters for real-coded memetic algorithms		58
44	Comprehensive Taxonomies of Nature- and Bio-inspired Optimization: Inspiration Versus Algorithmic Behavior, Critical Analysis Recommendations. <i>Cognitive Computation</i> , <b>2020</b> , 12, 897-939	4.4	57
43	Continuous scatter search: An analysis of the integration of some combination methods and improvement strategies. <i>European Journal of Operational Research</i> , <b>2006</b> , 169, 450-476	5.6	54
42	A Walk into Metaheuristics for Engineering Optimization: Principles, Methods and Recent Trends. <i>International Journal of Computational Intelligence Systems</i> , <b>2015</b> , 8, 606-636	3.4	50
41	An Insight into Bio-inspired and Evolutionary Algorithms for Global Optimization: Review, Analysis, and Lessons Learnt over a Decade of Competitions. <i>Cognitive Computation</i> , <b>2018</b> , 10, 517-544	4.4	44
40	Since CEC 2005 competition on real-parameter optimisation: a decade of research, progress and comparative analysis weakness. <i>Soft Computing</i> , <b>2017</b> , 21, 5573-5583	3.5	41
39	Iterated greedy for the maximum diversity problem. <i>European Journal of Operational Research</i> , <b>2011</b> , 214, 31-38	5.6	38

38	Performance evaluation of automatically tuned continuous optimizers on different benchmark sets. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 27, 490-503	7.5	34
37	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 64, 100888	9.8	33
36	Variable mesh optimization for continuous optimization problems. <i>Soft Computing</i> , <b>2012</b> , 16, 511-525	3.5	27
35	SHADE with Iterative Local Search for Large-Scale Global Optimization <b>2018</b> ,		26
34	A high performance memetic algorithm for extremely high-dimensional problems. <i>Information Sciences</i> , <b>2015</b> , 293, 35-58	7.7	23
33	A coral reefs optimization algorithm with substrate layers and local search for large scale global optimization <b>2016</b> ,		22
32	Iterative hybridization of DE with local search for the CEC'2015 special session on large scale global optimization <b>2015</b> ,		20
31	A panoramic view and swot analysis of artificial intelligence for achieving the sustainable development goals by 2030: progress and prospects. <i>Applied Intelligence</i> , <b>2021</b> , 51, 1-31	4.9	17
30	Variable mesh optimization for the 2013 CEC Special Session Niching Methods for Multimodal Optimization <b>2013</b> ,		16
29	A prescription of methodological guidelines for comparing bio-inspired optimization algorithms. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 67, 100973	9.8	16
28	Memetic Algorithm with Local Search Chaining for Continuous Optimization Problems: A Scalability Test <b>2009</b> ,		14
27	Region based memetic algorithm for real-parameter optimisation. <i>Information Sciences</i> , <b>2014</b> , 262, 15-31	7.7	13
26	Memetic algorithm with Local search chaining for large scale continuous optimization problems <b>2009</b> ,		12
25	Dynamically updated region based memetic algorithm for the 2013 CEC Special Session and Competition on Real Parameter Single Objective Optimization <b>2013</b> ,		11
24	A note on bound constraints handling for the IEEE CEC'05 benchmark function suite. <i>Evolutionary Computation</i> , <b>2014</b> , 22, 351-9	4.3	11
23	Memetic Algorithms with Local Search Chains in R: The Rmalschains Package. <i>Journal of Statistical Software</i> , <b>2016</b> , 75,	7.3	11
22	Region-based memetic algorithm with archive for multimodal optimisation. <i>Information Sciences</i> , <b>2016</b> , 367-368, 719-746	7.7	11
21	Evolutionary algorithms for large-scale global optimisation: a snapshot, trends and challenges. <i>Progress in Artificial Intelligence</i> , <b>2016</b> , 5, 85-89	4	10

20	Time series modeling and forecasting using memetic algorithms for regime-switching models. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2012</b> , 23, 1841-7	10.3	10
19	Influence of regions on the memetic algorithm for the CEC'2014 Special Session on Real-Parameter Single Objective Optimisation <b>2014</b> ,		9
18	Real-parameter crossover operators with multiple descendents: An experimental study. <i>International Journal of Intelligent Systems</i> , <b>2008</b> , 23, 246-268	8.4	7
17	Memetic Algorithm for Intense Local Search Methods Using Local Search Chains. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 58-71	0.9	7
16	A Novel Memetic Framework for Enhancing Differential Evolution Algorithms via Combination With Alopex Local Search. <i>International Journal of Computational Intelligence Systems</i> ,	3.4	6
15	Lights and shadows in Evolutionary Deep Learning: Taxonomy, critical methodological analysis, cases of study, learned lessons, recommendations and challenges. <i>Information Fusion</i> , <b>2021</b> , 67, 161-194	16.7	6
14	A test for the homoscedasticity of the residuals in fuzzy rule-based forecasters. <i>Applied Intelligence</i> , <b>2011</b> , 34, 386-393	4.9	5
13	A Local Genetic Algorithm for Binary-Coded Problems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 192-201	0.9	5
12	Ordering Artificial Intelligence Based Recommendations to Tackle the SDGs with a Decision-Making Model Based on Surveys. <i>Sustainability</i> , <b>2021</b> , 13, 6038	3.6	5
11	Region based memetic algorithm with LS chaining <b>2012</b> ,		4
10	An ACO algorithm benchmarked on the BBOB noiseless function testbed <b>2012</b> ,		4
9	Applying Memetic algorithm with Improved L-SHADE and Local Search Pool for the 100-digit challenge on Single Objective Numerical Optimization <b>2019</b> ,		2
8	Analysis among winners of different IEEE CEC competitions on real-parameters optimization: Is there always improvement? <b>2017</b> ,		2
7	Performance analysis of real-coded evolutionary algorithms under a computationally expensive optimization scenario: 3D $\bar{D}$ Comparative Radiography. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 97, 106793	7.5	2
6	Comparing Large-Scale Global Optimization Competition winners in a real-world problem <b>2019</b> ,		1
5	Modeling dynamics of a real-coded CHC algorithm in terms of dynamical probability distributions. <i>Soft Computing</i> , <b>2012</b> , 16, 331-351	3.5	1
4	Optimising real parameters using the information of a mesh of solutions: VMO algorithm <b>2012</b> ,		1
3	A least square support vector machine approach based on bVRNA-GA for modeling photovoltaic systems. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 117, 108357	7.5	0

- 2 NATURE- AND BIO-INSPIRED OPTIMIZATION: THE GOOD, THE BAD, THE UGLY AND THE HOPEFUL. 0.4 ○  
*Dyna (Spain)*, **2022**, 97, 114-117
- 1 Study of the Influence of the Local Search Method in Memetic Algorithms for Large Scale 0.9  
Continuous Optimization Problems. *Lecture Notes in Computer Science*, **2009**, 221-234